

Element Performance Inspection (EPI)

1.3.15 Reliability Program (AW)

Purpose of this Element (Air Carrier's responsibility):

To ensure the Reliability Program provides improved aircraft, powerplants, and systems reliability through data collection, analysis, and corrective action.

Objective (FAA responsibility):

To determine if the Air Carrier follows its policies, procedures, and controls for the Reliability Program.

Specific Instructions for this EPI:

To accomplish this EPI, the Aviation Safety Inspector (ASI) should review the Air Carrier's Reliability Program policies and procedures, and reports. The ASI should attend the Air Carriers Reliability Program review meetings and meet with Air Carrier reliability specialists. The ASI/PPM (Partial Program Manager) should discuss the reliability results, including corrective actions, with other ASIs/PPMs to identify related issues with the Air Carrier's Reliability Program. The ASI should discuss the Reliability Program with Air Carrier personnel having overall responsibility for the Reliability Program.

The ASI should review logbook, Pilot Information Reports, chronic reports, component tear down analysis reports, vendor reports, component failure rates, Reliability Program alerts, system adjustments, engine trend analysis data, and other statistical data required by the Air Carrier's reliability program.

This EPI will be accomplished at the Main Maintenance Base and at the location where the Reliability Program is administered.

Question 1.2. The Air Carrier's Reliability Program may develop information for data collection such as data analysis, corrective actions, performance standards, data display, maintenance interval adjustments, and program revisions.

Related EPIs:

- 1.1.2 Appropriate Operational Equipment (AW)
- 1.2.1 Airworthiness Release / Logbook Entry (AW)
- 1.3.1 Maintenance Program (AW)
- 1.3.2 Inspection Program (AW)
- 1.3.4 Required Inspection Items (RII) (AW)
- 1.3.5 MEL / CDL / Deferred Maintenance (AW)
- 1.3.6 AD Management (AW)
- 1.3.9 Engineering / Major Repairs and Alterations (AW)
- 1.3.11 Continuing Analysis and Surveillance (CAS) (AW)
- 1.3.14 General Maintenance Manual / Equivalent (AW)
- 1.3.19 Lower Landing Minimums (LLM) (AW)

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To meet this objective, the inspector will accomplish the following tasks (at the inspection locations where applicable):

1. Review the FAA Guidance and Specific Regulatory Requirements (SRR) included in the supplemental information section of this EPI.
2. Review the associated SAI, with emphasis on the Controls Attribute section.
3. Review and assess the Air Carrier's Reliability Program.
4. Review and assess the Air Carrier's Reliability Program records and reports.

To meet this objective, the inspector will answer the following questions:

1. Were the following performance measures met:

1.1 The Air Carrier complied with the provisions of its Operation Specifications in regards to the Reliability Program.

☐ YES If no explain:
☐ NO

1.2 The Air Carrier's Reliability Program developed information for data collection.

☐ YES If no, explain:
☐ NO

1.3 The Air Carrier submitted Reliability Program reports in accordance with its policies and procedures.

☐ YES If no, explain:
☐ NO

1.4 The Air Carrier provided Reliability Program training in accordance with its policies and procedures?

☐ YES If no, explain:
☐ NO

2. Were the Reliability Program procedures followed?

☐ YES If no, explain:
☐ NO

3. Were the Reliability Program controls followed?

☐ YES If no, explain:
☐ NO

4. Did records comply with the Reliability Program requirements?

☐ YES If no, explain:
☐ NO

5. <Deleted>

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SUPPLEMENTAL INFORMATION

SRRs:

No Specific Regulatory Requirements for a Reliability Program.

Other CFRs and FAA Guidance:

- 14 CFR 121.375, “Maintenance and Preventive Maintenance Training Program.”
- FAA Order 8300.10, Vol. 2, Chap. 3, “Evaluate Category I/II/III/IIIA Landing Minimum Maintenance/Inspection Programs.”
- FAA Order 8300.10, Vol. 2, Chap. 66, “Approve a Reliability Program.”
- FAA Order 8300.10, Vol. 2, Chap. 67, “Approve a Contract Reliability Program.”
- FAA Order 8300.10, Vol. 2, Chap. 72, “Evaluate Aircraft Lease/Interchange Agreement.”
- FAA Order 8300.10, Vol. 2, Chap. 80, “Evaluate Short-Term Escalation Procedures.”
- FAA Order 8300.10, Vol. 2, Chap. 82, “Evaluate/Inspect Part 121 Extended-Range Operations with Two-Engine Aircraft.”
- FAA Order 8300.10, Vol. 2, Chap. 84, “FAR Part 121/135 Operation Specifications.”
- FAA Order 8300.10, Vol. 3, Chap. 38, “Inspection Approved Reliability Program.”
- FAA Order 8300.10, Vol. 3, Chap. 40, “Inspection FAR Part 121/135 Contractual Reliability Program.”
- FAA Order 8300.10, Vol. 4, App. 3, “Handbook Bulletins.”
- FAA Order 8300.10, Vol. 4, App. 4, “Airworthiness Flight Standards Information Bulletins.” (as maintained on the FAA Corporate BBS, FedWorld BBS, and on the Flight Standards Internet AVR Home Page)
- FAA Order 8300.10, Vol. 4, App. 5, “Airline/Manufacturer Maintenance Program Development Document.” (scheduled tasks may be monitored by the Air Carriers Reliability Program)
- FAA Order 8300.10, Vol. 4, App. 6 (2.1.2), “NASIP Inspection Checklist.”
- HBAW 98-01, “Air Carrier and Maintenance Provider Contracts.”
- HBAW 95-06A, “Maintenance Programs for Aircraft Engines, Including Leased Engines...”
- FSAW 95-06, “US Air Carrier Code Sharing Authorization and Alliances with Foreign Carriers.”
- Refer to Advisory Circulars using a search engine (such as ATP Navigator or Summit).